



# NEWPORTS INSTITUTE OF COMMUNICATIONS & ECONOMICS

## BS Civil Engineering Technology

Program Duration: 04 Year

### Admission requirements

12 Year of education, F.Sc Pre Engineering/ DAE/ A-Level or equivalent with minimum 2<sup>nd</sup> Division.

Deficiency; “Students with premedical, must pass deficiency courses of Mathematics of 6 credit hours in first 2 semesters”.

Entry Test/Interview is mandatory.

### INTRODUCTION

Civil Engineering trains student on planning, designing, executing, managing, maintaining and rehabilitating infrastructure and building facilities. This is a diversified discipline which deals with all types of human endeavours related to the growth of civilization in the shape of buildings, transportation systems, industry, power systems, water resources, environment and geo sciences.

### CAREER PROSPECTS

The Civil Engineering graduates can look for jobs in various projects i.e. roads, buildings, sewerage/water supply, consultancy firms, quality testing laboratories or housing societies, fields of coastal, environmental, structural, transport, urban and water resources engineering. Civil Engineers are employed in all major construction projects carried out by the municipalities, city governments, provincial or central government, private construction companies, military engineering services and practice.

### Scheme of Study

#### Road Map

Total semesters: 08

Total Credit Hours: 137

Semester I			Semester II		
S #	Course Name	CR	S #	Course Name	CR
1	Islamic Studies / Professional Ethics	2	1	Concrete Technology	4
2	Applied Mathematics-I	3	2	Communication Skills	3
3	Introduction to Computer	3	3	Applied Mechanics	4



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<b>Fundamentals</b>					
4	Civil Engineering Drawing	3	4	Materials and Methods of Construction	4
5	Surveying	4	5	Applied Mathematics – II	3
6	Occupational Health & safety Management	2			
<b>Total Credit Hours</b>		<b>17</b>	<b>Total Credit Hours</b>		<b>18</b>
<b>Semester III</b>			<b>Semester IV</b>		
S #	Course Name	CR	S #	Course Name	CR
1	Introduction to Architecture and Town Planning	2	1	Transportation Engineering	4
2	Pakistan Studies	2	2	Water Supply & Waste Water Management	4
3	Quantity Surveying and Contract Documents	3	3	Environmental Management	3
4	Soil Mechanics	3	4	Theory of Structures	3
5	Fluid Mechanics	3	5	Technical Report Writing	3
6	Mechanics of Solids	4			
<b>Total Credit Hours</b>		<b>17</b>	<b>Total Credit Hours</b>		<b>17</b>
<b>Semester V</b>			<b>Semester VI</b>		
S #	Course Name	CR	S #	Course Name	CR
1	Hydrology	3	1	Pre-stressed & Precast concrete	3
2	Reinforced Concrete Structures	3	2	Geology & Earthquake Engineering	3
3	Construction and Hydraulic Machinery	3	3	Irrigation and Hydraulic Structures	3
4	Computer Aided Building Modeling and Design	3	4	Steel Structures	3
5	Foundations Engineering	3	5	Project	3
6	Project Management	3	6	Project (Continue)	3
<b>Total Credit Hours</b>		<b>18</b>	<b>Total Credit Hours</b>		<b>18</b>
<b>Semester VII</b>			<b>Semester VIII</b>		
S #	Course Name	CR	S #	Course Name	CR
1	Supervised Industrial / Field Training	16	1	Supervised Industrial / Field Training	16
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>16</b>